WIL-BI-IOL - Switchgear and controlgear assembly

1636099

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Evaluation unit for sensor data for load monitoring and structural health monitoring. With application software. Communication via Modbus/TCP and PROFINET. See “Technical data” for scope of supply.

Product description

The switchgear and controlgear assembly is part of the “Blade Intelligence” modular solution for rotor blade monitoring of wind turbine generators (WTG).The switchgear and controlgear assembly is an evaluation unit including application software. Sensors available as accessories are used to record measurement data. Some of the measurement data is transmitted via IO-Link communication. The sensors are installed in the WTG rotor blades. The necessary sensors and connecting cables are available as accessories. Two wireless modules (also available as accessories) can be used for optional wireless communication. Corresponding connections are available on the switchgear and controlgear assembly. The wireless modules are mounted outside of the switchgear and controlgear assembly.

Your advantages

- Early detection of damage and optimized maintenance intervals, thanks to continuous monitoring
- Easy connection to existing systems, thanks to open interfaces
- Maintenance work can be scheduled and parameterization adjusted, thanks to remote access
- Maximum availability of wind turbine generators, even under extreme conditions
- Operation and configuration via web interface

Commercial data

Item number	1636099
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	DTHABA
Product key	DTHABA
GTIN	4067923158368
Weight per piece (including packing)	12 kg
Weight per piece (excluding packing)	12 kg
Customs tariff number	85371098
Country of origin	DE

Technical data

Notes

Note on the status of the technical data	The specific technical data of the installed components can be found in the corresponding product documentation.

Product properties

Product type	Switchgear and controlgear assembly
Installation location	Indoor use, no exposure to direct sunlight
Scope of supply	1x connecting cable for feed-in

Insulation characteristics

Protection class	I

Electrical properties

Control voltage	24 V DC
Nominal voltage U_N	230 V AC (50 Hz)
Nominal current I_N	0.6 A
Nominal power	138 VA

Fuse

Recommended backup fuse:	16 A

Interfaces

Ethernet

Bus system	RJ45
Connection method	RJ45 jack
Transmission speed	10/100/1000 Mbps
Transmission length	max. 100 m (per segment)

Dimensions

External dimensions

Width / Height / Depth	400 mm / 400 mm / 210 mm

Material specifications

RAL color	7035 light gray
Material	Sheet steel (Wall housing, textured powder coating)

Environmental and real-life conditions

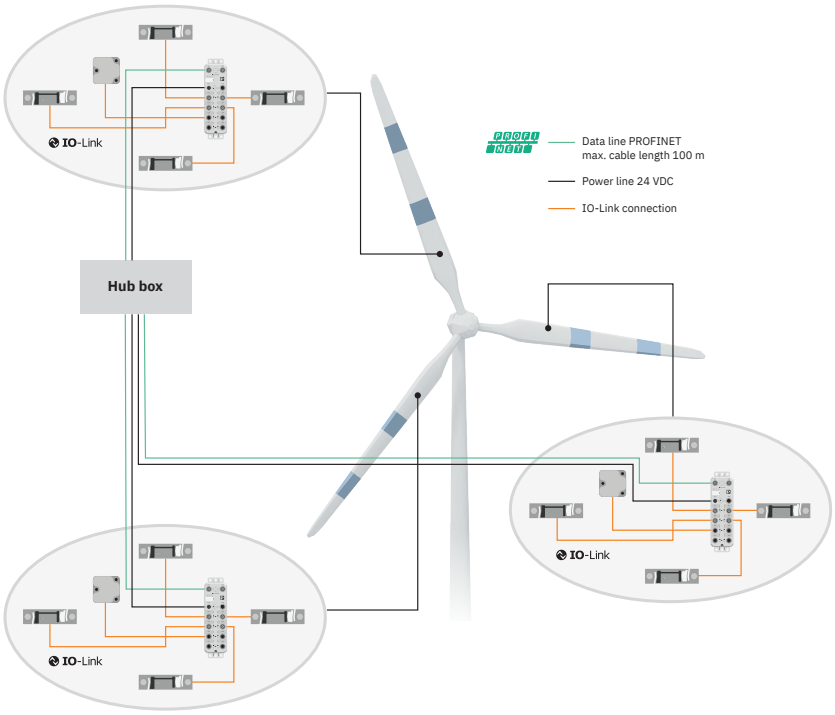
Ambient conditions

Degree of protection	IP54
Ambient temperature (operation)	-25 °C ... 50 °C
Ambient temperature (storage/transport)	-40 °C ... 60 °C (Destruction limit)
Permissible humidity (operation)	≤ 95 % (at 25 °C, non-condensing)

Air pressure (operation)	70 kPa ... 106 kPa (up to 2000 m above mean sea level)

Drawings

Application drawing



Blade Intelligence: System topology with RM-S-P and SHM-P

Classifications

ECLASS

ECLASS-13.0	27370190
ECLASS-15.0	27370190

ETIM

ETIM 10.0	EC012357

UNSPSC

UNSPSC 21.0	39121100

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(a), 6(a)-I, 6(c), 7(a), 7(c)-I

EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	bd6021d5-8cbd-4845-9d05-56be5304b0a8

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